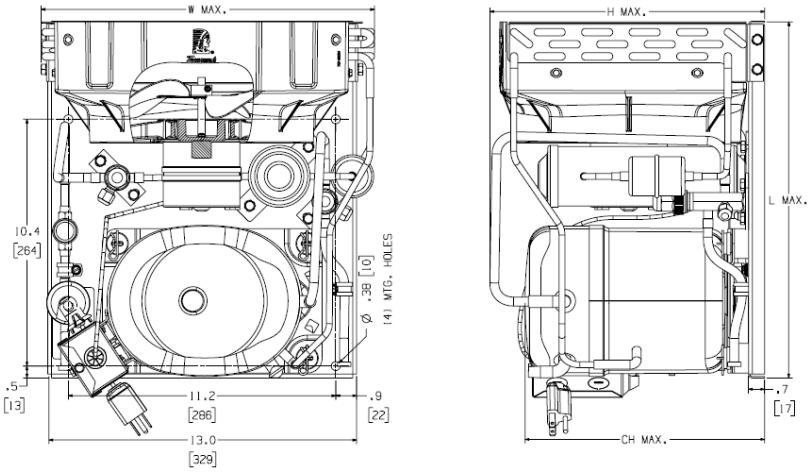
January 23, 2013
Revision: REL

Celseon® Air Cooled Condensing Unit

Model: AKA7437YAAD*
BoM: 2G209- R-134a 1/2 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AKA7437YAADA	15.0	14.0	11.2	10.1	3/8" S	1/4" S	N/A	185	17	52
AKA7437YAADG					3/8" S	3/8" S	2.5 lbs			54
AKA7437YAADH					3/8" S	3/8" S	N/A			52
AKA7437YAADK					3/8" S	1/4" S				52
AKA7437YAADC					3/8" S	3/8" S	2.5 lbs			54
AKA7437YAADS					3/8" S	3/8" S	N/A			52
AKA7437YAADJ					3/8" S	3/8" S	2.5 lbs			54
AKA7437YAADP					3/8" S	3/8" S	2.5 lbs			54

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	1.9	1808	454	95	1503	431	103	1230	411	111	874	360	118
-5	4.2	2133	500	98	1836	483	106	1544	463	114	1196	423	121
0	6.5	2479	549	102	2181	538	109	1867	518	117	1522	488	124
5	9.1	2848	600	105	2538	594	113	2201	576	120	1852	554	127
10	11.9	3237	655	109	2906	652	117	2546	638	124	2188	622	131
15	15.0	3648	712	113	3285	713	120	2900	702	128	2528	692	135
20	18.4	4080	772	116	3750	775	124	3265	770	132	2873	763	139
25	22.1	4534	835	121	4080	840	128	3641	841	136	3223	837	143
32	27.8	5205	928	127	4664	933	134	4184	946	141	3721	943	149
35	30.4	5506	970	129	4921	975	136	4423	993	144	3938	989	152

60 Hz Performance

Return gas temp. 40°F, 5°F sub cooling

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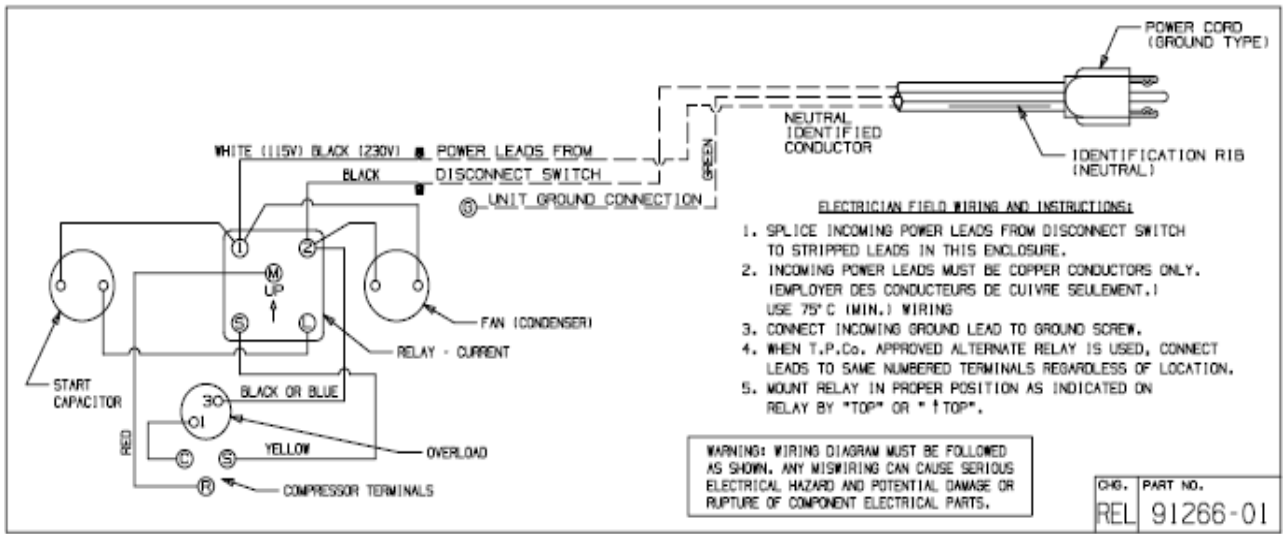
Specifications/ Parts:

Unit Model	**AKA7437YAADA**
Unit Bill of Material	**2G209-09**
Refrigeration Range	-10° F to 30° F
Design Pressure Low	150
Design Pressure High	235
Nominal Volts-Hz-Ph	115-60-1
Voltage Range	103 to 127
Min. Circuit Ampacity	14.5
Max. Fuse Size (amps)	25
Compressor Model	AKA4476YXA
Comp. Bill of Material	AK169AT-037-P2
Compressor RLA/LRA	11.3/58.8
Overload	External
Relay	82481-1
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	85PS125D59
Start Capacitor Rating	378-440 MFD 125V
Fan Motor	810-10001
Fan Motor RLA	.38
Fan Blade	515-10002
Fan Shroud/Guard Combo	707-00004
Condenser	506-10004
Unit Drawing	DGU1970-03
Wiring Diagram	91266-01
Replacement Kit: Relay	K71-02
Replacement Kit: O/L	K90-23

Unit Model	**AKA7437YAADG**
Unit Bill of Material	**2G209-19**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA7437YAADH**
Unit Bill of Material	**2G209-29**
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA7437YAADK**
Unit Bill of Material	**2G209-39**
Power Cord	85106-14
Unit Model	**AKA7437YAADC**
Unit Bill of Material	**2G209-59**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Unit Model	**AKA7437YAADS**
Unit Bill of Material	**2G209-69**
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Unit Model	**AKA7437YAADJ**
Unit Bill of Material	**2G209-79**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Filter Drier	71116
Sight Glass	70084
Unit Model	**AKA7437YAADP**
Unit Bill of Material	**2G209-89**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Filter Drier	71116
Sight Glass	70084

January 23, 2013
Revision: REL

Electrical Diagram Page 3


POWER CORD
(GROUND TYPE)
NEUTRAL
IDENTIFIED
CONDUCTOR
IDENTIFICATION RIB
(NEUTRAL)
WHITE (115V) BLACK (230V) POWER LEADS FROM
BLACK DISCONNECT SWITCH
UNIT GROUND CONNECTION
GREEN
FAN (CONDENSER)
RELAY - CURRENT
START
CAPACITOR
BLACK OR BLUE
RED
YELLOW
OVERLOAD
COMPRESSOR TERMINALS
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS:
1. SPLICE INCOMING POWER LEADS FROM DISCONNECT SWITCH TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75°C (MIN.) WIRING
3. CONNECT INCOMING GROUND LEAD TO GROUND SCREW.
4. WHEN T.P.Co. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".
WARNING: WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.
CHG.
PART NO.
REL
91266-01